

Material Safety Data Sheet (MSDS)

Beta Pinene

Revision Date: 28-August-2025

Version: 1.0

Section 1: Product Identification

- **Product Name:** Beta Pinene
- **Chemical Formula:** C₁₀H₁₆
- **CAS No:** 18172-67-3
- **Synonyms:** (-)-β-Pinene
- **Recommended Use:** Used in fragrances, flavors, resins, and as an intermediate in organic synthesis.

Section 2: Hazards Identification

- **Classification (GHS):** Flammable Liquid (Category 3), Skin Irritant (Category 2), Aspiration Hazard (Category 1).
- **Signal Word:** Danger
- **Hazard Statements:**

☎ +91-9227788155 | +91-9227788115 | +91-9227070667 | +91-260-6618618

✉ info@triveniinterchem.com | info@trivenichemical.com

🌐 www.triveniinterchem.com | www.trivenichemical.com

📍 135, Pancharatna, Char Rasta, G.I.D.C., Vapi-396195, Gujarat, India



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- Flammable liquid and vapor
- Causes skin irritation
- May be fatal if swallowed and enters airways

• **Precautionary Statements:**

- Keep away from heat, sparks, open flames, and hot surfaces
- Wear protective gloves and eye protection
- Wash hands thoroughly after handling
- Avoid breathing vapors

Section 3: Composition / Information on Ingredients

- **Concentration:** >95%

Section 4: First Aid Measures

- **Inhalation:** Remove to fresh air. If symptoms persist, seek medical attention.
- **Skin Contact:** Wash with plenty of soap and water. Remove contaminated clothing.
- **Eye Contact:** Rinse cautiously with water for several minutes. Seek medical attention if irritation persists.
- **Ingestion:** Do NOT induce vomiting. Seek immediate medical attention.

Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, carbon dioxide (CO₂).
- **Specific Hazards:** Vapors may form explosive mixtures with air. Emits toxic fumes of carbon oxides under fire conditions.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.

Section 6: Accidental Release Measures

- **Personal Precautions:** Use protective equipment. Avoid inhalation and skin/eye contact. Ensure adequate ventilation.
- **Environmental Precautions:** Prevent entry into drains, soil, and water bodies.
- **Cleanup Methods:** Absorb with inert material (sand, earth). Place in suitable container for disposal.

Section 7: Handling and Storage

- **Handling:** Avoid inhalation of vapors and contact with skin/eyes. Use only in well-ventilated areas. Keep away from ignition sources.

- **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated area. Protect from heat and sunlight.

Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** Not established for this compound.
- **Engineering Controls:** Ensure adequate ventilation and explosion-proof equipment.
- **Personal Protective Equipment:** Gloves, protective goggles, lab coat, respirator if necessary.

Section 9: Physical and Chemical Properties

- **Appearance:** Colorless to pale yellow liquid
- **Odor:** Woody, pine-like odor
- **Boiling Point:** 166 °C
- **Melting Point:** -61 °C
- **Flash Point:** 33 °C (closed cup)
- **Solubility:** Insoluble in water; soluble in alcohol and organic solvents
- **Molecular Weight:** 136.23 g/mol

Section 10: Stability and Reactivity

- **Stability:** Stable under recommended storage conditions.
- **Incompatible Materials:** Strong oxidizing agents, strong acids.
- **Hazardous Decomposition Products:** Carbon oxides under fire conditions.

Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin, and eye contact.
- **Acute Effects:** Causes skin irritation. May cause respiratory tract irritation.
- **Chronic Effects:** Prolonged or repeated exposure may cause dermatitis.

Section 12: Ecological Information

- **Ecotoxicity:** Harmful to aquatic life with long-lasting effects.
- **Persistence and Degradability:** Expected to be biodegradable.
- **Bioaccumulative Potential:** Low potential for bioaccumulation.

Section 13: Disposal Considerations

- Dispose of contents/container in accordance with local/regional/national regulations. Avoid release into the environment.

Section 14: Transport Information

- **UN Number:** 2319
- **Proper Shipping Name:** Flammable liquid, n.o.s. (contains Beta Pinene)
- **Hazard Class:** 3 (Flammable liquids)
- **Packing Group:** III

Section 15: Regulatory Information

- Complies with Indian chemical safety regulations and international inventories (TSCA, EINECS, etc.).
- Classified as hazardous substance under GHS.

Section 16: Other Information

- **Disclaimer:** The above information is believed to be correct but does not claim to be exhaustive. Users are responsible for verifying suitability under actual conditions of use. **Triveni chemicals** disclaims any liability for damage resulting from handling or contact.

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